SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Grotendorst, Gary R. Bradham Jr., Douglas M.,
- (ii) TITLE OF INVENTION: CONNECTIVE TISSUE GROWTH FACTOR
- (iii) NUMBER OF SEQUENCES: 2
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Spensley Horn Jubas & Lubitz
 - (B) STREET: 4225 Executive Square, Suite 1400
 - (C) CITY: La Jolla
 - (D) STATE: CA
 - (E) COUNTRY: US
 - (F) ZIP: 92037
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: US
 - (B) FILING DATE: 30-AUG-1991
 - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Wetherell, Jr. Ph.D., John W.
 - (B) REGISTRATION NUMBER: 31,678
 - (C) REFERENCE/DOCKET NUMBER: PD-1294
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 619-455-5100
 - (B) TELEFAX: 619-455-5110
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2075 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (vii) IMMEDIATE SOURCE:
 - (B) CLONE: DB60R32
 - (ix) FEATURE:
 - (A) NAME/KEY: CDS
 - (B) LOCATION: 130..1177
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

CCAC	GCGCT	rcc A	AGGC(CCCG	CG CI	CCC	CGCT	C GC	CGCCA	ACCG	CGCC	CCTC	CGC 1	rccg	CCCGCA
GTG	CCAA(FG AC et Th												
-			CTC Leu												
			TGC Cys												
			CTC Leu												
			GGC Gly 65												
			TTC Phe				_								
			GCC Ala												
			GGA Gly										_		_
			GGG Gly												
			AGC Ser 145												
			TGC Cys												
			CCT Pro												
			ACT Thr												GAG Glu 205
			TG T Cys								_		_		
			AAC Asn 225												
								CTG Leu							GGC

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	240					245					250				
AAA AAG Lys Lys 255															936
CTT TCT Leu Ser 270															984
GTA TGT Val Cys															1032
CCG GTG Pro Val															1080
ATG TTC Met Phe															1128
GAC ATC Asp Ile 335															T 1177
GAAGCCAG	AG A	AGTGA	AGAGA	AC A)AAT	CTCAT	TAC	GACT	GGAA	CTT	GAACI	rga '	TTCA	CATCI	CC 1237
ATTTTTCC	GT A	AAAA	ATGAT	TT TO	CAGTA	AGCAC	C AAC	GTTA	TTTA	AAT	CTGT	TTT '	TCTAA	ACTGG	GG 1297
GGAAAAGA	TT C	CCAC	CCCAA	AT TO	CAAAA	ACATT	GT(GCCA.	rgtc	AAA	CAAAT	rag '	TCTA?	гсттс	CC 1357
CCAGACAC	TG G	STTTC	GAAGA	AA TO	GTTAA	AGACI	r TGA	ACAG	ГGGA	ACTA	ACAT:	ΓAG '	TACA	CAGCA	C 1417
CAGAATGT	AT A	ATTAA	AGGTO	GT GO	GCTT	[AGG	A GCA	AGTGO	GGAG	GGTA	ACCG	GCC (CGGT	ΓAGTA	AT 1477
CATCAGAT	CG A	CTC	TATA	AC GA	AGTAA	ATATO	G CCI	rgct <i>i</i>	ATTT	GAA	GTGTA	AAT '	TGAGA	AAGGA	A 1537
AATTTTAG	CG I	GCT	CACTO	GA CO	CTGC	CTGTA	A GCO	CCCA	GTGA	CAG	CTAGO	GAT (GTGCA	ATTCI	CC 1597
CAGCCATC	SAA G	GAGA	CTGAC	GT CA	AAGTI	TGTT	CT	[AAG]	ГСАG	AAC	AGCA(GAC '	TCAG	CTCTC	GA 1657
CATTCTGA	TT C	GAA]	[GAC	AC TO	GTTCA	AGGAA	A TCC	GGAA.	гсст	GTC	GATTA	AGA (CTGG	ACAGO	T 1717
TGTGGCAA	GT G	GAAT	TGC	CT GT	ΓAAC <i>A</i>	AAGC	C AGA	ATTT?	ГТТА	AAA.	TTA!	ΓΑΤ ΄	TGTA	LATAA	T 1777
GTGTGTGT	GT G	GTGT	GTGT	GT A	CATA	CATA	TA 1	TAT	GTAC	AGT.	[ATC]	ΓΑΑ (GTTA	ATTTA	AA 1837
AGTTGTTT	GT G	CCT	rttt <i>i</i>	AT T	rttg	CTTT	CAA	rgct:	ГТGА	TAT	TCA	ATG '	TTAG	CCTCA	AA 1897
TTTCTGAA	CA C	CCATA	AGGTA	AG AA	ATGTA	AAAG(C TTC	GTCT	GATC	GTT	CAAA	GCA '	TGAAA	ATGGA	AT 1957
ACTTATAT	GG A	\AAT]	CTG	CT C	AGATA	AGAA	r GA(CAGT	CCGT	CAAA	AACA	GAT '	TGTT	rgcaa	AA 2017
GGGGAGGC	CAT C	CAGTO	GTCT	rg go	CAGG	CTGAT	TT(CTAG	GTAG	GAAA	ATGT	GGT A	AGCT(CACG	2075

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 349 amino acids(B) TYPE: amino acid(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met Thr Ala Ala Ser Met Gly Pro Val Arg Val Ala Phe Val Val Leu Leu Ala Leu Cys Ser Arg Pro Ala Val Gly Gln Asn Cys Ser Gly Pro Cys Arg Cys Pro Asp Glu Pro Ala Pro Arg Cys Pro Ala Gly Val Ser Leu Val Leu Asp Gly Cys Gly Cys Cys Arg Val Cys Ala Lys Gln Leu 50 60 50 Gly Glu Leu Cys Thr Glu Arg Asp Pro Cys Asp Pro His Lys Gly Leu Phe Cys Asp Phe Gly Ser Pro Ala Asn Arg Lys Ile Gly Val Cys Thr Ala Lys Asp Gly Ala Pro Cys Ile Phe Gly Gly Thr Val Tyr Arg Ser Gly Glu Ser Phe Gln Ser Ser Cys Lys Tyr Gln Cys Thr Cys Leu Asp 115 120 Gly Ala Val Gly Cys Met Pro Leu Cys Ser Met Asp Val Arg Leu Pro 130 Ser Pro Asp Cys Pro Phe Pro Arg Arg Val Lys Leu Pro Gly Lys Cys 145 150 160 Cys Glu Glu Trp Val Cys Asp Glu Pro Lys Asp Gln Thr Val Val Gly 165 Pro Ala Leu Ala Ala Tyr Arg Leu Glu Asp Thr Phe Gly Pro Asp Pro 180 185 190 Thr Met Ile Arg Ala Asn Cys Leu Val Gln Thr Thr Glu Trp Ser Ala 195 200 205 Cys Ser Lys Thr Cys Gly Met Gly Ile Ser Thr Arg Val Thr Asn Asp Asn Ala Ser Cys Arg Leu Glu Lys Gln Ser Arg Leu Cys Met Val Arg 225 230 240 Pro Cys Glu Ala Asp Leu Glu Glu Asn Ile Lys Lys Gly Lys Lys Cys Ile Arg Thr Pro Lys Ile Ser Lys Pro Ile Lys Phe Glu Leu Ser Gly 260 265 270 Cys Thr Ser Met Lys Thr Tyr Arg Ala Lys Phe Cys Gly Val Cys Thr Asp Gly Arg Cys Cys Thr Pro His Arg Thr Thr Thr Leu Pro Val Glu 295 300 290 Phe Lys Cys Pro Asp Gly Glu Val Met Lys Lys Asn Met Met Phe Ile 320 305

Lys Thr Cys Ala Cys His Tyr Asn Cys Pro Gly Asp Asn Asp Ile Phe 325 330 335

Glu Ser Leu Tyr Tyr Arg Lys Met Tyr Gly Asp Met Ala 340